

Title (en)

Programmable digital tone detector.

Title (de)

Programmierbarer digitaler Detektor für tonfrequente Signale.

Title (fr)

Détecteur digital programmable pour signaux à fréquences acoustiques.

Publication

EP 0008160 A1 19800220 (EN)

Application

EP 79301327 A 19790709

Priority

US 93273478 A 19780810

Abstract (en)

plurality of up/down counters (20) (20a...20i) are controlled by a programmed digital reference signal. The combination of a high select signal and a high input signal causes any one of the counters (20) to increment (up) by one count while a combination of a high select signal and a low input signal causes any one of the counters (20) to decrement (down) one count. A threshold detector (22) signals an output when a specific combination of the counters (20) reaches a predetermined combination count signifying correlation of the programmed reference with the input tone over a predetermined number of cycles. The phase of the input may be determined by noting which of the counters reaches the predetermined threshold.

IPC 1-7

H04Q 1/46; **H03D 3/06**; **H03K 9/06**

IPC 8 full level

G01R 23/167 (2006.01); **G01R 25/00** (2006.01); **H03H 17/00** (2006.01); **H03K 9/04** (2006.01); **H04L 27/00** (2006.01); **H04L 27/14** (2006.01); **H04L 27/26** (2006.01); **H04Q 1/457** (2006.01)

CPC (source: EP US)

H04Q 1/457 (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

DE FR GB NL

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